

**AUGUST 2001 FIRE COMPLEX
BURNED AREA EMERGENCY STABILIZATION REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	MONITORING SUCCESS OF WATERSHED TREATMENTS PROTECTION SEEDING (AERIAL) AND MULCHING	AGENCY:	BLM Elko F.O.
PART E LINE ITEM:	#12 W-2 Monitoring and Evaluation of Emergency Treatments.	FISCAL YEAR(S) (list each year):	2002 - 2004

I. WORK TO BE DONE

Number and Describe Each Task:

- A. General Description:** Conduct monitoring each year following treatment to determine success of watershed treatments on the August 2001 Fire Complex. Utilize "Freqdens" Techniques or similar methods established for seeded areas. Monitor following major precipitation events. A resource specialist from each Field Office will provide program oversight for this specification .
- B. Location/(Suitable) Sites:** Establish monitoring transects within all seeded areas. Final site selections to be made by a BLM representative. Site selection includes stratification of areas based on range sites, soils, slope, aspect, treatments (including seeding methods and seed mixes), allotments, etc. This stratification will occur primarily during the first year.
- C. Design/Construction Specifications:** Monitoring transects shall be established and methodologies designed to determine:
- a.** A minimum seedling establishment of 3-4 plants per square meter and/or a minimum of 3-4 native, perennial herbaceous plants per square meter.
 - b.** Sampling should determine species composition or density.
 - c.** Count seedlings/square meter - Seeded species/Native Species/Total # and compare to seeding rate per square meter for treatment success.
 - d.** Monitor cover of vegetation, litter, rock, bare ground, and cryptogamic crusts.
 - f.** Sampling methodologies shall represent dominate plant community type, aspect, and slope variations within the seeded areas. Photos shall accompany data records as supporting documentation of findings.
 - g.** Observations should be documented both in written and photographic documents to record other factors such as herbivory, surface erosion, etc.
 - h.** Field observations shall be made following all major precipitation events to evaluate the effectiveness of the watershed treatments. This will be documented in written and photographic form.
 - i.** A final report shall be published that documents sampling methodologies, techniques, areas sampled, and summary of findings.
- D. Purpose of Treatment Specification:** Monitoring is required to ascertain reseeding or native release success and effectiveness to meet the objectives that the BAER team identified and mitigate the identified emergency to the degree anticipated. Ensure establishment of reseeded species or species managed for natural release for soil stabilization and watershed protection.

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item Do not include contract personnel costs here (see contractor services below).	COST/ITEM
Stratification & site selection by GS-11 @ \$ 25.00/hr X 10 hours/day x6 days/year X 1 Year	\$1,500.00

Annual monitoring & oversight by GS-11 @ \$ 25.00/hr X 10 hours/day x 6 days/year X 3 Years	\$4,500.00
Annual Monitor :3 Seasonal GS-07 personnel @ \$ 17.00/hr X 10 hrs/day x 6 days/yr X 3 years	\$9,180.00
TOTAL PERSONNEL SERVICE COST	\$15,180.00
► EQUIPMENT PURCHASE, LEASE AND /OR RENT (Item @ Cost/Hour X # of House X # Fiscal Years = Cost/Item): Note: Purchase require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
Stratification Vehicle Cost @ \$33.00 per day x 6 days x 1 vehicles x 1 year	\$198.00
Stratification Vehicle Cost @ .17 per mile x 250 miles/day x 6 days x 1 vehicle x 1 year	\$255.00
Stratification Vehicle Cost @ \$40 per day x 6 days x 1 vehicles x 1 year	\$240.00
Monitoring Vehicle Cost @ \$33.00 per day x 6 days x 1 vehicles x 3 year	\$594.00
Monitoring Vehicle Cost @ .17 per mile x 250 miles/day x 6 days x 1 vehicle x 3 year	\$765.00
Monitoring Vehicle Cost @ \$40 per day x 6 days x 1 vehicles x 3 year	\$720.00
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	\$2,772.00
► MATERIALS AND SUPPLIES: (Item @ Cost/Each X Quantity X # Fiscal Years = Cost/Item):	COST/ITEM
Photographic Film @: 1.5 Rolls/day x 6 days X \$18.00 per roll X 3 Years	\$486.00
Clipboards, tapes, scales, topo maps, & miscellaneous supplies @ \$100 X 1 purchase X 1 Year	\$100.00
TOTAL MATERIALS AND SUPPLY COST	\$586.00
► TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	N/A
► CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	N/A

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Treatment	\$805.11	9	\$7,246.00	ESR	P
FY 2	Treatment	\$627.33	9	\$5,646.00	ESR	P
FY 3	Treatment	\$627.33	9	\$5,646.00	ESR	P
TOTAL:	Treatment	\$2,059.77	9	\$18,538.00	ESR	P

FUNDING SOURCES:

F = Fire Suppression Account
ESR = Emergency Stabilization Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (Long-Term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	P, M
3. Estimate supported by cost guides from independent sources or other federal agencies.	

4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account.	

P = Personnel Services, M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
See Vegetation Assessment, Appendix I for discussion of this specification.

IV. TOTAL COST BY FIRE

FIRE NAME	TREATMENTS MONITORED		COST
Buffalo	1		\$2,059.77
Coyote	2		\$4,119.55
Mile Marker 367	1		\$2,059.77
Ranch	1		\$2,059.77
Sheep	1		\$2,059.77
Stag	2		\$4,119.55
Tabor Creek	1		\$2,059.77
TOTAL COST	9		\$18,537.95